

Serial No. 10/816,288

PATENT

CLAIM AMENDMENTS

1. (Cancelled)

2. (Cancelled)

3. (Original) An aspiration and flushing needle assembly comprising;

a handle,

an outer needle extending from the handle,

a side port in the handle, the side port being connectable with a source of
flushing liquid,

a connector portion on the handle, the connector portion being axially aligned
with the outer needle, the connector portion having a first connector thereon,

an aspiration cannula assembly having an aspiration cannula extending
proximally and distally from a grip to define a proximal portion and a distal
portion of the aspiration cannula,

the proximal portion of the aspiration cannula being connectable to an
aspiration assembly,

the distal portion of the aspiration cannula adapted to extend through the
handle into a lumen of the outer needle to the distal end thereof, and

a second connector on the grip adapted to connect to the first connector on
the connector portion to join the aspiration cannula assembly to the handle for
use.

4. (Original) An aspiration and flushing needle assembly comprising;

a handle with a handle lumen therein,

an outer needle extending from the handle, the outer needle having a
needle lumen in fluid communication with the handle lumen,

Serial No. 10/816,288

PATENT

5 a side port in the handle, the side port having a side port lumen in fluid
6 communication with the handle lumen and being connectable with a source of
7 flushing liquid,

8 a connector portion on the handle, the connector portion having a
9 connector lumen in fluid communication with the handle lumen, the connector
10 portion being axially aligned with the outer needle, the connector portion
11 having a first connector thereon,

12 an aspiration cannula assembly having an aspiration cannula extending
13 proximally and distally from a grip to define a proximal portion and a distal
14 portion of the aspiration cannula, the proximal portion of the aspiration
15 cannula being connectable to an aspiration assembly, the distal portion of the
16 aspiration cannula in use extending into the handle lumen via the connector
17 lumen and to extend into the outer needle lumen to the distal end thereof, and

18 a second connector on the grip adapted to connect to the first on the
19 connector portion to join the aspiration cannula assembly to the handle for
20 use.

1 5. (Original)An aspiration and flushing needle assembly as in Claim 4 wherein the
2 first and second connectors are selected from the group consisting of Luer lock
3 type connectors, push fit connectors, a resilient clip or catch arrangement or any
4 other convenient arrangement.

1 6. (Original) An aspiration and flushing needle assembly as in Claim 4
2 wherein the outer needle has a bevelled sharpened tip at its distal end.

Serial No. 10/816,288

PATENT

1 7. (Original) An aspiration and flushing needle assembly as in Claim 6 wherein
2 the bevelled tip is further sharpened with a secondary bevel to assist with cutting
3 into a follicle.

1 8. (Original) An aspiration and flushing needle assembly as in Claim 6 wherein
2 when assembled the distal end of the aspiration cannula terminates just within
3 the bevelled sharpened tip of the outer needle.

1 9. (Original) An aspiration and flushing needle assembly as in Claim 8 wherein
2 the distal end terminates between 0.5 to 1.5 mm proximally from the base of the
3 bevel of the sharpened tip.

1 10. (Original) An aspiration and flushing needle assembly as in Claim 4 wherein a
2 portion at the distal end of outer needle is treated to improve its ultrasound echo
3 characteristics wherein the treatment is selected from the group consisting of
4 indenting, patterning or knurling or coating with a different material and the
5 treatment is spaced back from the bevelled tip or extends partially along the
6 bevelled tip portion.

1 11. (Original) An aspiration and flushing needle assembly as in Claim 4 further
2 including a tapered extension on the gripper surrounding the cannula which
3 extends into connector portion in use.

1 12. (Original) An aspiration and flushing needle assembly as in Claim 11 wherein
2 the tapered extension has an O-ring seal on it to improve sealing of the aspiration
3 cannula assembly into the handle.

Serial No. 10/816,288

PATENT

1 13. (Original) An aspiration and flushing needle assembly as in Claim 4 further
2 comprising alignment detents on the tapered extension which engage with
3 corresponding recesses on the connector portion.

1 14. (Original) An aspiration and flushing needle assembly as in Claim 13 wherein
2 the alignment detents on the tapered extension and the recess on the connector
3 portion provided a depth setting on the recess in the connector portion to ensure
4 the distal tip of the aspiration cannula is in a desired position within the distal tip
5 of the outer needle.

1 15. (Original) An aspiration and flushing needle assembly as in Claim 4 wherein
2 the connector portion lumen has internally tapered walls to guide the aspiration
3 cannula into the outer needle lumen.

1 16. (Original) An aspiration and flushing needle assembly as in Claim 4 wherein
2 the aspiration and flushing needle assembly is supplied in a sterile peel open
3 package and is intended for one use only.

1 17. (Original) An aspiration and flushing needle assembly as in Claim 4 wherein
2 the aspiration and flushing needle assembly is supplied in a disassembled state
3 and intended to be assembled by a physician in use.

1 18. (Original) An aspiration and flushing needle assembly comprising;
2 a handle with a handle lumen therein,
3 an outer needle extending from the handle, the outer needle comprising a
4 needle lumen in fluid communication with the handle lumen, a bevelled sharpened

Serial No. 10/816,288

PATENT

5 tip at its distal end and a portion at the distal end of outer needle being treated to
6 improve its ultrasound echo characteristics,

7 a side port in the handle, the side port having a side port lumen in fluid
8 communication with the handle lumen and being connectable with a source of
9 flushing liquid,

10 a connector portion on the handle, the connector portion having a connector
11 lumen in fluid communication with the handle lumen, the connector portion being
12 axially aligned with the outer needle, the connector portion having a male Luer
13 lock connector thereon,

14 an aspiration cannula assembly having an aspiration cannula extending
15 proximally and distally from a grip to define a proximal portion and a distal
16 portion of the aspiration cannula, the proximal portion of the aspiration cannula
17 being connectable to an aspiration assembly, the distal portion of the aspiration
18 cannula in use extending into the handle lumen via the connector lumen and to
19 extend into the outer needle lumen to the distal end thereof, and

20 a female Luer lock connector on the grip adapted to connect to the male
21 Luer lock connector to join the aspiration cannula assembly to the handle for use.